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Pb(Mn_{1/3}Nb_{2/3})O₃ sio₂

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Piezoelectric ceramic material and piezoelectric ceramic sintered body obtained using the same

I Yoshizawa, K Horikawa... - US Patent 6,299,791, 2001 - Google Patents

 ... contain- 40 ing at least one of 0.005 to 0.040% by weight of **SiO₂** and 0.005 ...

 Narrow-band niters of conventional **Pb[(Mn_{1/3}Nb_{2/3}), Zr, Ti]O₃** based piezoelectric ...

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Piezoelectric ceramic composition and piezoelectric element

R Tanimoto, Y Tsuji, M Kimura, H Takagi... - US Patent App. 09/933,410, 2001 - Google Patents

 ... to claim 1 and represented by the compositional formula **Pb_a{(Mn_{1/3}Nb_{2/3})_xZr**
Ti_z}O₃+b wt ... in which the elements constituting A is a combination of **Pb** and at ...

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Piezoelectric ceramic material, electronic part using the ceramic

M Kida, M Katsube - US Patent 6,511,763, 2003 - Google Patents

 ... 2)O₃ and Nd(Mg_{1/2}Ti_{1/2})O₃; and compounds ... PbO, TiO₂, ZrO₂, MnCO₃, Nb₂O₅, Cr₂O₃, **SiO₂**, and Al₂O₃ ... such that a piezoelectric ceramic comprising **Pb(Mn_{1/3}Nb_{2/3})₀₋₁₀** ...

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PORCELAIN COMPOSITION

T Mori - 1990 - freepatentsonline.com

 ... 0.5-5.0wt.% **SiO₂** fibers are incorporated into a four-component porcelain compsn.

 represented by a formula **A_xB_yC_zD_{1-xyz}** [where A is **Pb(Mn_{1/3}Nb_{2/3})O₃**, B is **Pb(Ni_{1/3}**
[Web Search](#)
Piezoelectric ceramic composition and piezoelectric device

M Hirose, T Azuma, Y Niwa, M Abe - US Patent App. 10/559,740, 2004 - Google Patents

 ... In the case where Mn is included as an additive, in relation to **Pb [(Mn_{1/3}Nb_{2/3}/**
3)_xTi_yZr_z]O₃ in formula (1 ... [0045] In addition, **SiO₂** may be included as an ...

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Piezoelectric ceramic composition and manufacturing the same, and piezoelectric element

T Azuma, M Hirose - US Patent App. 10/949,742, 2004 - Google Patents

 ... There are provided steps of polarizing a ceramic composi- tion including a perovskite compound containing **Pb**, Zr, Ti ... **Pb_a[(Mn_{1/3}Nb_{2/3})_xTi_yZr_l]O₃** Sample No ...

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Piezoelectric paste and piezoelectric film and piezoelectric part using the same

T Kubota - US Patent 6,355,185, 2002 - Google Patents

 ... Type PbO TiO₂ ZrO₂ **SiO₂** parts by weight parts by weight a-1 62.9 ... a Zr/Ti ratio of

 0.52/ 0.48, ie, a composition represented by **Pb(Zr_{0.52}Ti_{0.48})O₃**, 30 was ...

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Resonator

T Azuma, M Hirose, A Suzuki, K Taniwaki - US Patent App. 11/397,952, 2006 - Google Patents
... [0059] The quantity a representing the **Pb** content is pref ... 0.005 to 0.15 wt % with respect to the main component, especially Pba[(**Mn1/3Nb2/3**)xTiyZrz]**O3**. ...

Web Search - All 3 versions

Method of making lead zirconate titanate-based ceramic powder, piezoelectric ceramic and method for ...

K Nada, K Okada, M Kida - US Patent App. 10/240,845, 2002 - Google Patents
... may be replaced with Sr, Ba, La, Ca, or the like, or **SiO₂**, A12O₃, or ... oxide, for example, a **Pb**(Mg₁/3Nb₂/3)(Zr,Ti)**O3**- based ceramic, a **Pb**(**Mn1/3Nb2/3**)(Zr,Ti ...


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Microstructure and Electromechanical Properties in PMnN-PZT Ceramics Sintered at Different ...

LI Baoshan, ZHU Zhigang, LI Guorong, D Aili - 材料科学技术学报(英文版), 2005 - scholar.ilib.cn
... Baoshan LI , Zhigang ZHU , Guorong LI , Aili DING The microstructure and piezoelectric properties of **Pb**[(Zr_{0.52}Ti_{0.48})_{0.95}(**Mn1/3Nb2/3**)_{0.05}]**O3** (PMnN-PZT ...

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Key authors: T Azuma - M Hirose - M Kida - K Horikawa

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